

WHAT IS CLAIMED IS:

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1. A display device comprising:

display means for forming information; and

optical means for guiding the light from said

5 display means to the eye, said optical means including  
a curved face for totally reflecting the light.

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2. A display device according to claim 1, wherein  
said optical means <sup>comprises</sup> includes, in the order in the

proceeding direction of light, an entrance face for

introducing the light from said display means, said

curved face and a reflecting face for reflecting the

light toward the eye, wherein the light reflected by

said reflecting face is transmitted by said curved face

15 and reaches the eye.

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3. A display device according to claim 1, wherein  
said curved face has variable optical power depending  
on the azimuthal angle.

4. A display device according to claim 1,  
satisfying a condition  $|\alpha| \leq 20^\circ$  wherein  $\alpha$  is the angle  
between the tangential line to said curved face at the  
vertex thereof and a line perpendicular to the optical  
25 axis of the eye.

5. A display device according to claim 1, further

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comprising:

illumination means for illuminating the eye; and  
light-receiving means for receiving the light  
reflected from the eye, for detecting the visual line  
5 thereof.

Subst AB 6. A display device according to claim 5, further  
comprising:

control means for controlling the display state of  
10 said display means, according to the light receiving  
state of said photosensor means.

a Sub E5 7. A display device according to claim 2, wherein  
said reflecting face is a half-transmitting face.

15 Subst AB 8. A display device according to claim 2, wherein  
said reflecting face has variable optical power  
depending on the azimuthal angle.

20 9. A display device comprising:

information forming means for forming an  
information;

optical means for guiding a light of said  
information forming means to an eye, in which said  
25 optical means have a reflecting curved face decentered  
having a positive optical power;

illuminating means for illuminating said eye;

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converging means for converging a light of said  
illuminating means reflected from said eye; and

detecting means for receiving a light from said  
converging means to detect a state of said eye;

5 wherein where an imaging magnification of said  
converging means is  $\beta$ , a following condition is  
satisfied,

$$0.02 < |\beta| < 0.18.$$

10 10. A display device according to claim 9,  
wherein said reflecting curved face has variable  
optical power depending on the azimuthal angle.

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E1